

# PATENT ABSTRACTS OF JAPAN

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(71)Applicant : FUJITSU LTD

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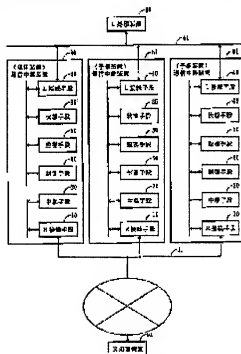
(72)Inventor : IWATA HIDEKI  
TAKEDA KOICHI  
NAKANISHI HIROSHI  
BABA HIDEKAZU  
KIKUTA RUMIKO

## (54) METHOD AND DEVICE FOR REPEATING COMMUNICATION

(57)Abstract:

**PROBLEM TO BE SOLVED:** To surely restart/continue communication in a short time by providing a standby device in addition to an active device and automatically performing switching to the standby device, when a fault at the active device is detected.

**SOLUTION:** When no packet is transferred for a fixed time between an R connecting means 10 and an L connecting means 40, at an active device 80, a monitoring means 50 diagnoses the presence/absence of abnormality and reports to a control means 60 of an abnormality, when it is detected. The control means 60 generates the status information of that abnormality, sends the information to the L connecting means 40 and a line 41 and stops the operating of the device. Next, the active device 80 is changed into a standby mode, while referring to a state means 85, and at the same time, state information is updated to device abnormality, a standby device 81 in high exchange order is changed to an active mode, and the state means 85 is updated for advancing the exchange order of other standby devices 81. The repeating of packet is automatically continued by the standby device 81 being changed into an active mode. Thus,



continuation of communication is enabled without fail in a short time through active/standby switching processing.